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**SCIENCE**

**0846/01**

Paper 1

**For Examination from 2012**

SPECIMEN MARK SCHEME

**45 minutes**

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**MAXIMUM MARK: 50**

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This document consists of **8** printed pages.

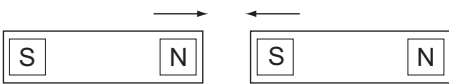
<b>Question</b>	<b>1</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
(a)	1	copper	
(b)	1	insulator	
<b>Total</b>	<b>2</b>		

<b>Question</b>	<b>2</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
(a)	1	vibrations	
(b)	1	waves	
(c)	1	an echo	
<b>Total</b>	<b>3</b>		

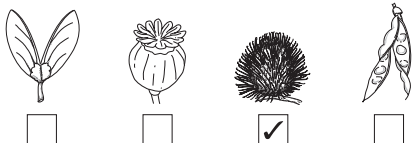
<b>Question</b>	<b>3</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
(a)	1	granite	
(b)	1	everything scratched it / it was scratched by all the objects	
(c)	1	lets water soak through	
<b>Total</b>	<b>3</b>		

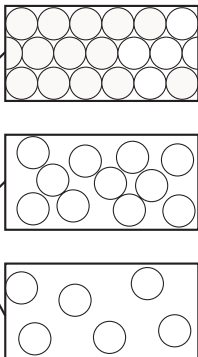
<b>Question</b>	<b>4</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
(a)	1	where they live	
(b)	2	<ul style="list-style-type: none"> <li>• food e.g. food/things to eat</li> <li>• water</li> <li>• shelter e.g. shelter / protection / a home / safety</li> </ul>	any two = 2 marks
<b>Total</b>	<b>3</b>		

Question	5		
Part	Mark	Answer	Further Information
(a)	1	stays the same	
(b)	1	some of the water is evaporating / turning into gas / goes into the air	
(c)	1	They were dissolved in the water.	
<b>Total</b>	<b>3</b>		


Question	6		
Part	Mark	Answer	Further Information
(a)	1		
(b)	1	iron / steel / nickel / cobalt	any one
(c)	1	They <b>push</b> away.	Ignore 'do not attract'. Candidates <b>must</b> indicate that there is a <b>force</b> .
<b>Total</b>	<b>3</b>		

Question	7		
Part	Mark	Answer	Further Information
(a)	1	year – B	
(b)	1	day – A	
<b>Total</b>	<b>2</b>		

<b>Question</b>	<b>8</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
(a)	1	reproduction	
(b)	1	 <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
(c)	1	dispersal	Accept dispersion.
(d)	1	Wind blows the seeds.	
<b>Total</b>	<b>4</b>		


Question	9														
Part	Mark	Answer	Further Information												
(a)	1	<div><div>gas</div><div>solid</div><div>liquid</div><div></div></div>	all correct = 1 mark												
(b)	3	<table><tr><th>solid</th><th>liquid</th><th>gas</th></tr><tr><td></td><td></td><td>✓</td></tr><tr><td></td><td>✓</td><td></td></tr><tr><td>✓</td><td></td><td></td></tr></table>	solid	liquid	gas			✓		✓		✓			each correct answer = 1 mark
solid	liquid	gas													
		✓													
	✓														
✓															
Total	4														

Question	10		
Part	Mark	Answer	Further Information
(a)	1	Both muscles <b>A</b> and <b>B</b> contract (shorten). <input type="checkbox"/>	
		Both muscles <b>A</b> and <b>B</b> relax. <input type="checkbox"/>	
		Muscle <b>A</b> contracts (shortens) and muscle <b>B</b> relaxes. <input type="checkbox"/>	
		Muscle <b>B</b> contracts (shortens) and muscle <b>A</b> relaxes. <input checked="" type="checkbox"/>	
(b)	1	heart	Accept biceps or triceps.
Total	2		

Question	11		
Part	Mark	Answer	Further Information
(a)	1		Arrow can be above or below pillow.
(b)	1	any reference to change of shape	Accept words like squashes, goes flat, made thin, pressed. Do not accept: go down or sink down.
Total	2		

Question	12		
Part	Mark	Answer	Further Information
	1	lung/s	
Total	1		

Question	13																	
Part	Mark	Answer			Further Information													
	1	<table><tr><td>process</td><td>reversible</td><td>non-reversible</td></tr><tr><td>baking bread</td><td></td><td>✓</td></tr><tr><td>boiling water</td><td>✓</td><td></td></tr><tr><td>dissolving salt</td><td>✓</td><td></td></tr></table>	process	reversible	non-reversible	baking bread		✓	boiling water	✓		dissolving salt	✓		all correct = 1 mark			
process	reversible	non-reversible																
baking bread		✓																
boiling water	✓																	
dissolving salt	✓																	
Total	1																	

Question	14		
Part	Mark	Answer	Further Information
(a)	1		Accept this arrow wherever placed.
(b)	1	B	
Total	2		

Question	15		
Part	Mark	Answer	Further Information
(a)	1	4	
(b)	1	hawk	
Total	2		

<b>Question</b>	<b>16</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
	2	excretion growth	any order  each correct answer = 1 mark
<b>Total</b>	2		

<b>Question</b>	<b>17</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
(a)	1	light or temperature/warmth	
(b)	1	number of beans paper water	
(c)	1	room temperature	Accept warmth, heat. Ignore water. Do not accept room temperature <b>and</b> light.
<b>Total</b>	3		

<b>Question</b>	<b>18</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
(a)	1	Light is blocked/Light cannot pass through her hand.	Do not accept: her hand is in the way.
(b)	1	moves her hand closer to or further from the torch	
<b>Total</b>	2		

<b>Question</b>	<b>19</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
(a)	1	They melted.	Accept: It has changed from solid to liquid.
(b)	1	Water vapour from the air has condensed on the outside of the glass.	Tick top box.
<b>Total</b>	<b>2</b>		

<b>Question</b>	<b>20</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
(a)	1	evaporates	
(b)	1	condensation	Accept condense or condensing.
<b>Total</b>	<b>2</b>		

<b>Question</b>	<b>21</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
(a)	1	water	
(b)	1	to make the vapour condense	Accept: to cool the vapour / gas / steam  to make the vapour / gas / steam turn into a liquid / water
<b>Total</b>	<b>2</b>		